

In the Claims:

1. (Currently amended) An assembly (1) comprising: ~~formed of~~
a tubeless tire (10) mounted on a mounting rim (20), this tire having two beads (11) designed to cooperate with the mounting rim (20) comprising edges for limiting the axial distance between the beads of the tire, this tire having furthermore a crown (13) and sidewalls (12) connecting the beads (11) to the crown, this tire defining with the mounting rim (20) a cavity; and inside which there is placed

a body (30) toric in form placed in said cavity and defining, when the tire is inflated, a cavity inside said body (30) and an outer cavity with the tire, the inner and outer cavities intercommunicating in such a way that the body (30) is not subject to any inflation force in normal use (i.e. tire inflated to its utilization pressure), this body (30) comprising a skin (31), of resilient elastomeric material capable of deformation, reinforced by a carcass reinforcement (311) anchored to two inextensible circumferential reinforcement structures (33), whose internal diameter is less than the maximum diameter of the rim (20), this carcass reinforcement (311) being capable of withstanding the forces applied by an inflation pressure corresponding to the rated inflation pressure of the tire inside which the body (30) is placed, ~~this body (30) being characterized in that,~~

wherein in the presence of a puncture (100) in the tire, the skin (31) deforms, at least locally and virtually instantaneously, in order to block at least temporarily the puncture (100) so as to limit, at least temporarily, the loss of inflation pressure in the outer cavity between the tire and the body, and to ensure transition to a state of equilibrium in which the body (30) is

deformed and serves as a support for the tire (10) after complete loss of pressure in the outer cavity.

2. (Currently amended) The assembly (1) according to claim 1, wherein ~~characterized in that~~ the body (30) is a closed torus provided with at least one opening for communication between the inner and outer cavities.

3. (Currently amended) The assembly (1) according to claim 1, wherein ~~characterized in that~~ the body (30) is a torus which is open substantially axially between the inextensible circumferential reinforcement structures (33) of said body.

4. (Currently amended) The assembly (1) according to claim 1, wherein ~~any one of claims 1 to 3 characterized in that~~ the carcass reinforcement (311) of the body (30) comprises at least two plies each formed of a plurality of reinforcement elements, in the form of textile cords or cables, forming, in the radially outermost part of the body, angles of at least 25° with the circumferential direction, the reinforcement elements of the plies being crossed over one another.

5. (Currently amended) The assembly (1) according to claim 4, wherein ~~characterized in that~~ the reinforcements of the carcass reinforcement (311) of the body (30) are cords or cables of aromatic polyamide.

6. (Currently amended) The assembly (1) according to claim 1, wherein ~~any one of claims 1 to 5 characterized in that~~ the body (30) comprises a crown part (34) radially towards the outside, said crown part comprising a reinforcement structure (341) formed of a plurality of reinforcements in the form of continuous or discontinuous cords or cables.

7. (Currently amended) The assembly (1) according to claim 6, wherein ~~characterized in that~~ the reinforcement structure of the crown part (34) of the body (30) comprises a plurality of reinforcements disposed in a direction forming an angle of at most 10° with the circumferential direction.

8. (Currently amended) The assembly (1) according to claim 1, wherein ~~any one of claims 1 to 7 characterized in that~~ the body (30) comprises a framework (40, 400) placed inside said body and independent of said body, said framework having the function of causing the body (30) to adopt a form defining an inner cavity volume at least equal to one third of the maximum cavity volume defined by the tire (10) and its mounting rim (20).

9. (Currently amended) The assembly (1) according to claim 8, wherein ~~characterized in that~~ the framework (40) comprises at least one circumferential band (41) of a rigidity appropriate for imparting to the body (30) a circumferential length appropriate to said body and, firmly connected to said band (41), a plurality of bows (42) imparting their shape to the body (30) in the transverse direction.

10. (Currently amended) A body (30) of toric geometry around an axis of rotation and designed to be placed inside an assembly formed of a tire (10) mounted on a mounting rim (20) so as to seal any puncture (100) which said tire (10) may suffer and to reduce the rate at which pressure is lost in the tire while providing said tire with an inflated support, this body (30) comprising:

a skin (31), of resilient elastomeric material, reinforced by a carcass reinforcement (311) anchored to two inextensible circumferential reinforcement structures (33) incorporated in said skin (31); ~~these~~

wherein the inextensible structures (33) ~~having~~ have an internal diameter of less than the maximum diameter of the rim (20); ~~this~~

wherein the carcass reinforcement (311) ~~being~~ is capable of withstanding the forces applied by an inflation pressure corresponding to the rated inflation pressure of the tire inside which the body (30) is placed; ~~this body being characterized in~~

wherein the body is such that, under the action of local ~~low~~ pressure less or equal to 0.1 bar, said body (30) comes virtually instantaneously into contact with the tire (10) at the site of the puncture (100), and ~~in that~~ said body (30) is capable of withstanding an inflation pressure equal to that of the tire (10) in which it is intended to be placed, said body (30) being a closed torus whose skin (31) is provided with at least one small opening, said opening being located radially to the inside of the inextensible circumferential reinforcement structures (33) providing anchorage for the carcass reinforcement (311).

11. (Cancelled)

12. (Currently amended) The body (30) of toric geometry according to claim 10, wherein ~~characterized in that~~ the body (30) is a torus open axially between the inextensible circumferential reinforcement structures (33) providing anchorage for the carcass reinforcement (311).

13. (Currently amended) The body (30) of toric geometry according to claim 10, wherein ~~any one of claims 10 to 12 characterized in that~~ the carcass reinforcement (311) of the body (30) comprises at least two plies each formed of a plurality of reinforcement elements, in the form of textile cords or cables, oriented on the inflated body in directions forming angles of at least 25° with the circumferential direction, the reinforcement elements of the stacks being crossed over one another.

14. (Currently amended) The body (30) of toric geometry according to claim 13, wherein ~~characterized in that~~ the reinforcements of the carcass reinforcement (311) of the body are cords or cables of aromatic polyamide.

15. (Currently amended) The body (30) of toric geometry according to claim 10, wherein ~~any one of claims 10 to 13 characterized in that~~ the body (30) comprises a crown part (34) radially towards the outside, said crown part comprising a reinforcement structure (341) formed of a plurality of reinforcements in the form of continuous or discontinuous cords or cables.

16. (Currently amended) The body (30) of toric geometry according to claim 15, wherein ~~characterized in that~~ the reinforcement structure of the crown part (34) of the body (30) comprises a plurality of reinforcements disposed in a direction forming an angle of at most 10° with the circumferential direction.

17. (Currently amended) The body (30) of toric geometry according to claim 10, wherein ~~any one of claims 10 to 16 characterized in that~~ each inextensible circumferential reinforcement structure (33) is a bead wire of aromatic polyamide, said bead wire making it possible to withstand the forces applied by an inflation pressure equal to the inflation pressure of the tire inside which said body is placed, while facilitating positioning.

18. (Currently amended) The body (30) of toric geometry according to claim 10, ~~any one of claims 10 to 17, characterized in that the~~ comprising means of imparting a geometric shape to said body (30) ~~consist of including~~ a framework (40, 400), of appropriate rigidity, placed inside the skin (31) while being independent of said skin (31), this geometric shape defining a cavity volume at least equal to one third of the internal volume of the tire (10) in which the body(30) is intended to be placed.

19. (Currently amended) The body (30) of toric geometry according to claim 18, wherein ~~characterized in that~~ the framework (40, 400) comprises at least one circumferential structure (41, 41', 41'') of suitable rigidity for imparting to the skin (31) a given circumferential

dimension and, firmly connected to said circumferential structure (41, 41', 41''), a plurality of transverse bows (42) imparting their shape to the body (30) in the transverse direction.

20. (Currently amended) A body (30) of toric geometry according to claim 18, wherein ~~characterized in that~~ the framework (40) comprises two circumferential structures (41', 41'') of suitable rigidity for imparting to the skin (31) a given circumferential dimension at two axially distinct points, these two circumferential structures (41', 41'') being connected by at least one bow (42) whose function is to hold said two structures axially apart.

21. (Currently amended) The body (30) of toric geometry according to claim 18, wherein ~~characterized in that~~ the framework (400) ~~consists of~~ comprises at least one toric base annular spring (401) imparting its toric shape to the skin (31).